

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/006005

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F01D11/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/054281 A1 (ADAMS JOSEPH M ET AL) 27 December 2001 (2001-12-27) page 2, paragraph 30 - page 3, paragraph 37; figures 4,5	1-19
X	US 2002/112468 A1 (WOODROW BRUCE H ET AL) 22 August 2002 (2002-08-22) page 1, paragraph 11 - page 2, paragraph 17; figure 1	1-19
X	US 5 832 721 A (CULLEN MICHAEL JOHN) 10 November 1998 (1998-11-10) abstract; figure 1 column 6, lines 60-66	1,2,19
A	US 5 339 628 A (BRUECK ROLF ET AL) 23 August 1994 (1994-08-23) abstract; figure 1	1-19

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

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Date of the actual completion of the international search

5 October 2004

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13/10/2004

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2001054281 A1	27-12-2001	NONE	
US 2002112468 A1	22-08-2002	NONE	
US 5832721 A	10-11-1998	US 5956941 A DE 69709051 D1 DE 69709051 T2 EP 0867609 A1 JP 11002123 A DE 69713019 D1 DE 69713019 T2 DE 69717173 D1 DE 69717173 T2 EP 1048830 A2 EP 0837234 A1 JP 10121947 A	28-09-1999 24-01-2002 02-05-2002 30-09-1998 06-01-1999 11-07-2002 21-11-2002 19-12-2002 27-03-2003 02-11-2000 22-04-1998 12-05-1998
US 5339628 A	23-08-1994	DE 4027207 A1 AT 100898 T AT 100899 T BR 9106797 A BR 9106810 A CZ 9300220 A3 CZ 9300221 A3 DE 59100960 D1 DE 59100961 D1 WO 9203642 A1 WO 9203643 A1 EP 0545974 A1 EP 0545976 A1 ES 2048597 T3 ES 2048017 T3 JP 2523461 B2 JP 5508900 T JP 2523462 B2 JP 6501532 T KR 196611 B1 KR 196616 B1 RU 2094624 C1 RU 2076930 C1 US 5428956 A	05-03-1992 15-02-1994 15-02-1994 06-07-1993 06-07-1993 11-08-1993 11-08-1993 10-03-1994 10-03-1994 05-03-1992 05-03-1992 16-06-1993 16-06-1993 16-03-1994 01-03-1994 07-08-1996 09-12-1993 07-08-1996 17-02-1994 15-06-1999 15-06-1999 27-10-1997 10-04-1997 04-07-1995